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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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(54) Title: METHODS FOR THE SELECTION OF COMPOUNDS USEFUL FOR THE TREATMENT OF HUNTINGTON'S DISEASE

(57) Abstract: The present invention describes a screening method for the identification of molecules useful in the prevention and/or treatment of Huntington's disease characterized by the evaluation of the ability of said molecules of inhibiting the activity of the NRSE sequence; the method is performed by incubating said molecules in a cell system appropriately engineered to detect the level of activation of the NRSE sequence. The invention also describes the process for the preparation of said cell system, the vector used in said process and the use of molecules inhibiting. the activity of the NRSE sequence for the preparation of medicaments useful in the treatment and/or prevention of Huntington's disease.

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(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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a. classification of subject matter IPC 7 G01N33/68 C07K14/47 C12N15/85

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-601N-C07K-C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

, DOCUM	ENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.
category °	Citation of document, with indication, where appropriate, of t	he relevant passages	Helevant to claim No.
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.,	ISSN: 0895-8696		3,7
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X	WO 96 29433 A (UNIV NEW YORK)		1,17
Y	26 September 1996 (1996-09-26 page 6 -page 7 page 14 claims 32,37)	2,3,5-16
X Fur	ther documents are listed in the continuation of box C.	X Patent family members are listed	d in annex.
<u> </u>			
"A" docum consi "E" earlier filling "L" docum which citatio "O" docum	ategories of cited documents: nent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is clied to establish the publication date of another on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or reans nent published prior to the international filing date but than the priority date claimed	"T" later document published after the int or priority date and not in conflict with cited to understand the principle or the invention. "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the description of the cannot be considered to involve an inventive and document is combined with one or ments, such combination being obvining the art. "&" document member of the same pater	claimed invention of the claimed invention of the considered to coment is taken alone claimed invention inventive step when the core other such docupous to a person skilled
Date of the	e actual completion of the international search	Date of mailing of the international se	earch report
:	30 October 2003	17/11/2003	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340–2040, Tx. 31 651 epo nl, Fax: (+31-70) 340–3016	Authorized officer Armandola, E	





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		PC1/1B 03/0102/	
Category °	citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
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X	MILLECAMPS S ET AL: "Neuron-restrictive silencer elements mediate neuron specificity of adenoviral gene expression." NATURE BIOTECHNOLOGY. UNITED STATES SEP	13,14	
	1999, vol. 17, no. 9, September 1999 (1999-09), pages 865-869, XP001155921		
Υ	ISSN: 1087-0156 page 3	15	
X	TABUCHI AKIKO ET AL: "REST4-mediated modulation of REST/NRSF-silencing function during BDNF gene promoter activation." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. UNITED STATES 11 JAN 2002, vol. 290, no. 1, 11 January 2002 (2002-01-11), pages 415-420, XP002259740	13,14	
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P,Y	CATTANEO E ET AL: "THE ENIGMA OF HUNTINGTON'S DISEASE" SCIENTIFIC AMERICAN, SCIENTIFIC AMERICAN INC. NEW YORK, US, vol. 287, no. 6, December 2002 (2002-12), pages 60-65, XP001155743 ISSN: 0036-8733 last two paragraphs page 65	1-17	
	-/		



Intq onal Application No PC | / IB 03/01627

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Станоп от доситель, мил инисанов, млеге арргориала, от на тегачали развадее	
P,X	GARCÍA-SÁNCHEZ RUBÉN ET AL: "Identification of repressor element 1 in cytochrome P450 genes and their negative regulation by RE1 silencing transcription factor/neuron-restrictive silencer factor." BIOCHIMICA ET BIOPHYSICA ACTA. NETHERLANDS 17 MAR 2003, vol. 1620, no. 1-3, 17 March 2003 (2003-03-17), pages 39-46, XP009019760 ISSN: 0006-3002 figure 5	13,14
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 18

Present claim 18 relates to an extremely large number of possible compounds for which support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is not found. The claimso lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.





national application No. PCT/IB 03/01627

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 18 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: See FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box il Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT Information on patent family members



int onal Application No
PCT/IB 03/01627

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9629433 A	26-09-1996	AU 5369396 A WO 9629433 A1	08-10-1996 26-09-1996